USCMS Engineer Status Report for March 2004

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1   Work Performed This Month

1. DC04

I focused on the DC04 activities during the month of March. It was a really busy month and I didn't get much time to work on other stuff.

(1). Debugged the batch transfer scripts with multi-streams developed in February;

(2). Updated the cern RLS using a bulk script;

(3). Tried various methods to solve the performance issues related to RLS: 1). Updated to new version of POOL —1.6.0; 2). Compiled and installed the C++ version of RLS commands and made the corresponding modification in the transfer scripts;

(4). To solve the bottleneck of checking the transfer successfulness and RLS performance during the transfer, separate the transfer script into two parts: file transfer part and file check/registration part;

(5). During the transfer, we still observed the backlog to update TMDB file state due to the bad performance of RLS. I further separated the scripts into 3 scripts: 1). Transfer script: responsible for file transfer; 2). File state check script: check whether a file has been transferred to T1 successfully, whether a file has arrived to tape; then update its status in TMDB; 3). File registration script: add a replica in cern RLS; pull the POOL meta data from cern RLS.

(6). Besides the above development, I worked on to get the data into Fermilab and tried to work with Ian, Michael, Jon, Joe, Lisa and David, etc. to keep the transfer going on smoothly.

(7). Tried to help Jerry with the meta data issue.

(8). Renamed the PFN at the Fermilab POOL according to the suggestion by Vincenzo and Ian;

(9). Wrote a script to move the files in dCache/Enstore into separate directories according to the suggestions by Robert Harris and Greg.

2. Configuration monitoring Updated the parameters related to MOP and sent a new package to Natalia and Bockjoo for distribution;

3. VO (1). I fixed the VOMS-admin issue Tanya raised—Tanya didn't clear up all the left over parameters and variables associated with the corrupted VO which caused her update failure; (2). Helped Tanya fix the ACL issue associated with VOMS-Admin;

4. Reviewed and exchanged e-mails on dataset and possible dataset meta Database.

2   Status of Deliverables

1. T1 Transfer Agent Basic scripts are already in place. Need to make it more robust, automatically error recoverable, and finish up putting transfer log into the TMDB.

2. DC04 for T2 Work with Ian and other people to setup a system for distributing DC04 files to T2 sites for physics analysis.

3   Plans For Next Month

I will still focus on the DC04 work:

1. Continue to improve the transfer performance, RLS performance and the transfer scripts;

2. Will work other people to setup the system for distributing files to T2 sites and conducting analysis on these data sets;

4   Longer Term Plans

Need talk with the management.

5 Resources Needed

None.

6 Links To Supporting Documentation

- N/A.